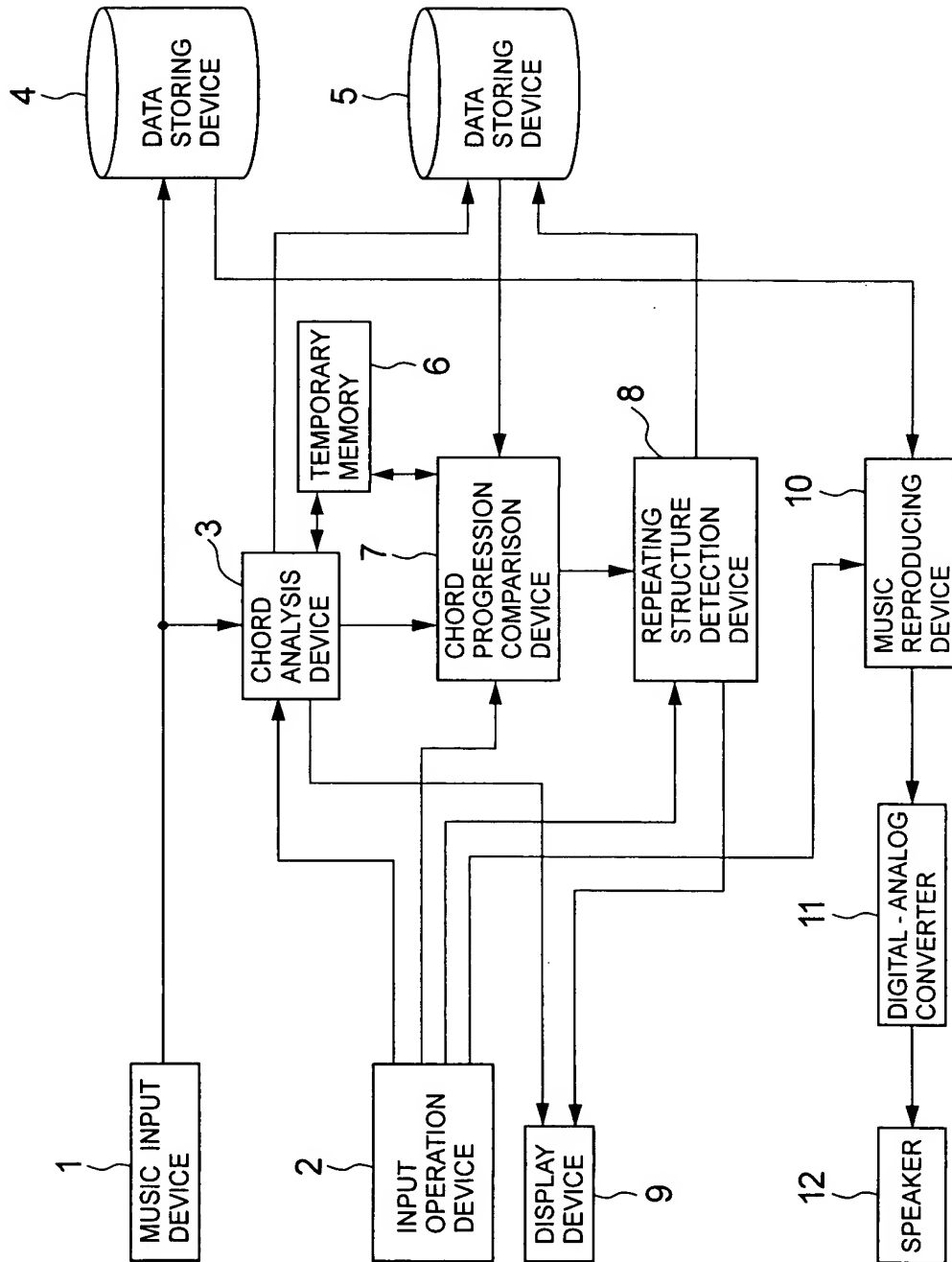




FIG.1



2 / 19

FIG.2

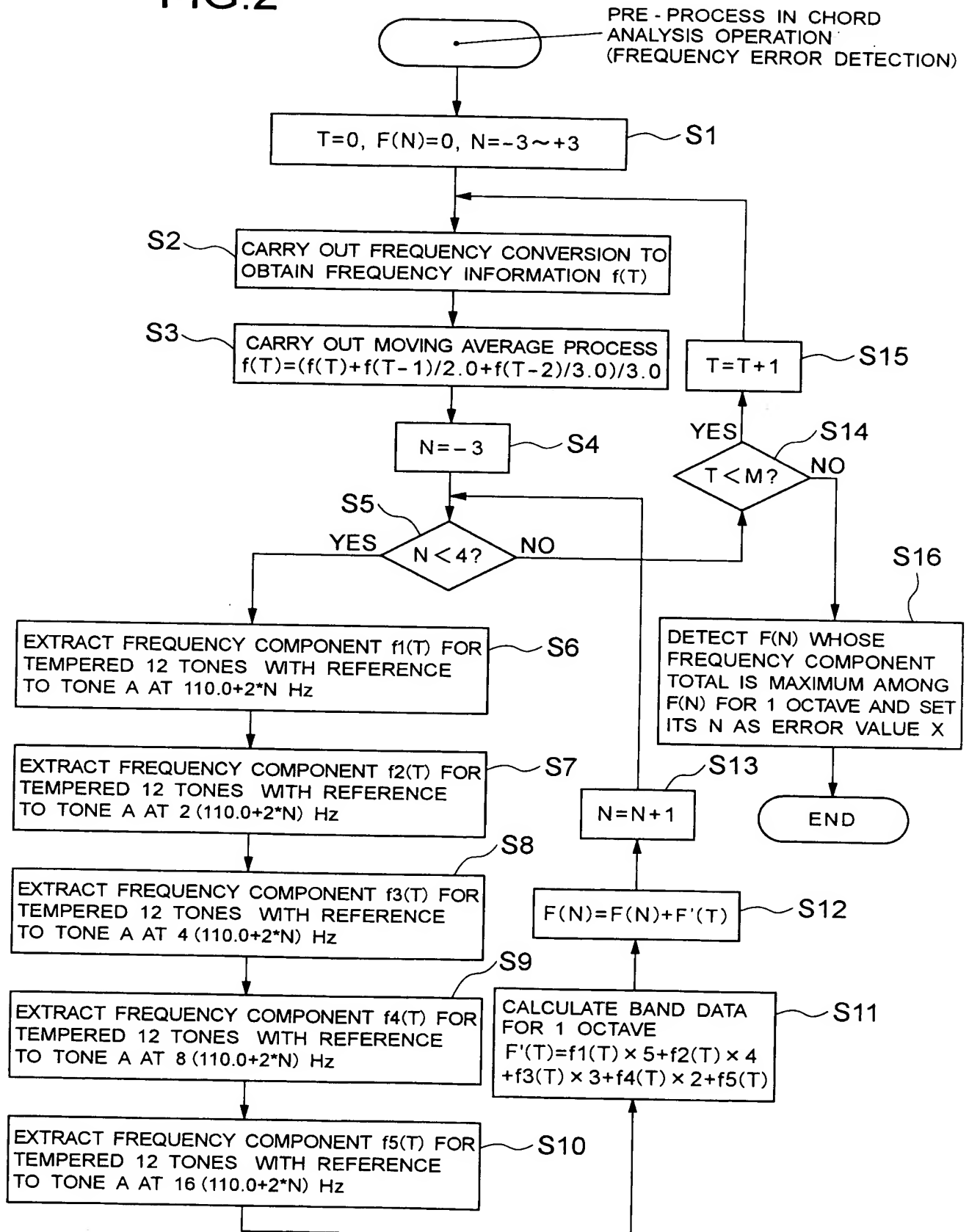
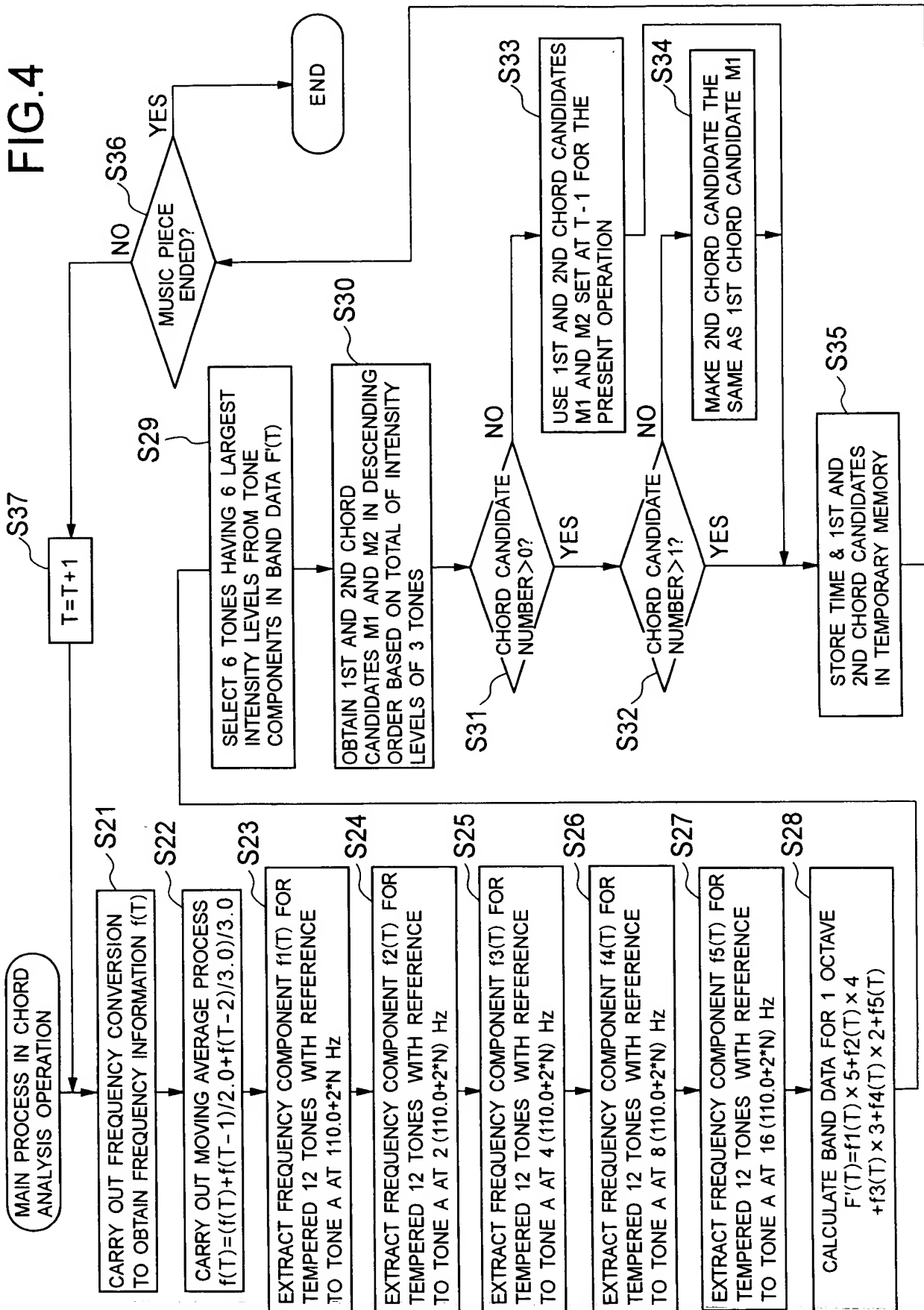


FIG.3

A	1.0
A#	$A \times 1.059163$
B	$A \times 1.124622$
C	$A \times 1.189207$
C #	$A \times 1.259921$
D	$A \times 1.334840$
D #	$A \times 1.414214$
E	$A \times 1.498307$
F	$A \times 1.587401$
F #	$A \times 1.681793$
G	$A \times 1.781797$
G #	$A \times 1.887749$
A	$A \times 2.0$

FIG. 4



5 / 19

FIG.5

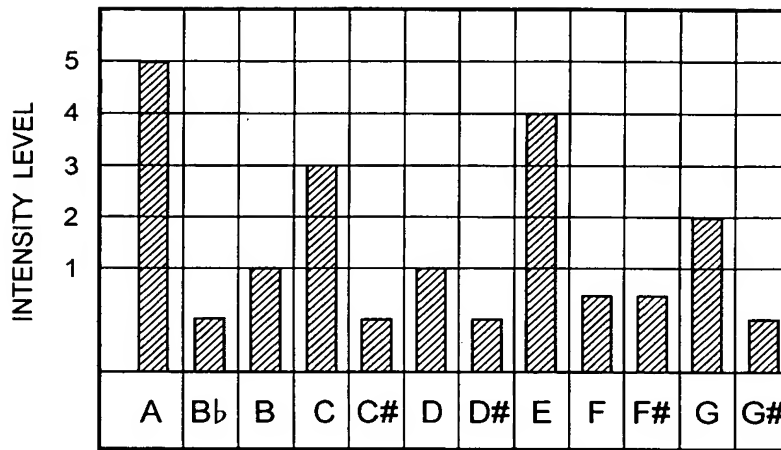


FIG.6

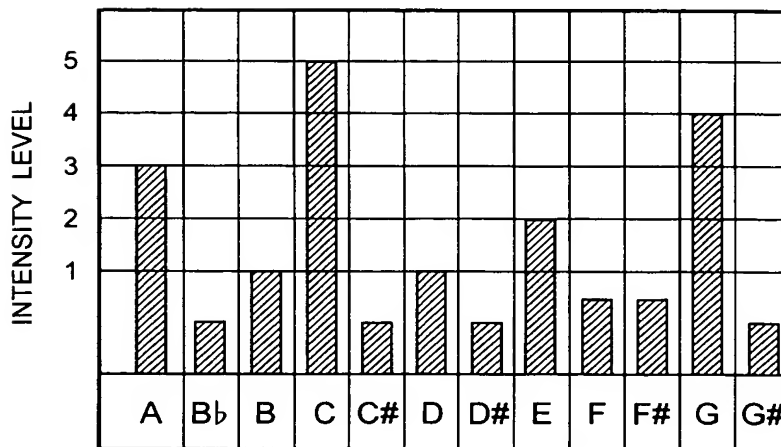


FIG.7

A+C+E+G(Am7)

→ A+C+E(Am) | C+E+G(C)

A+C+E b +F#(Adim7)

→ A+C+E b (Adim7 CANDIDATE) | C+E b +F#(Cdim7 CANDIDATE)

A+C#+E+G(A7)

→ A+C#+E(A) | A+C#+G(A7 CANDIDATE) | C#+E+G(C#dim7 CANDIDATE)

A+C+E+G+B(Am7.9)

→ A+C+E(Am) | C+E+G(C) | E+G+B(Em)

FIG.8

TIME (4 BYTES)	1ST CHORD CANDIDATE (1 BYTE)	2ND CHORD CANDIDATE (1 BYTE)
TIME (4 BYTES)	1ST CHORD CANDIDATE (1 BYTE)	2ND CHORD CANDIDATE (1 BYTE)
⋮		
TIME (4 BYTES)	1ST CHORD CANDIDATE (1 BYTE)	2ND CHORD CANDIDATE (1 BYTE)

FIG.9A

FUNDAMENTAL TONE	
A	0 × 00
A#	0 × 01
B	0 × 02
C	0 × 03
C#	0 × 04
D	0 × 05
D#	0 × 06
E	0 × 07
F	0 × 08
F#	0 × 09
G	0 × 0A
G#	0 × 0B

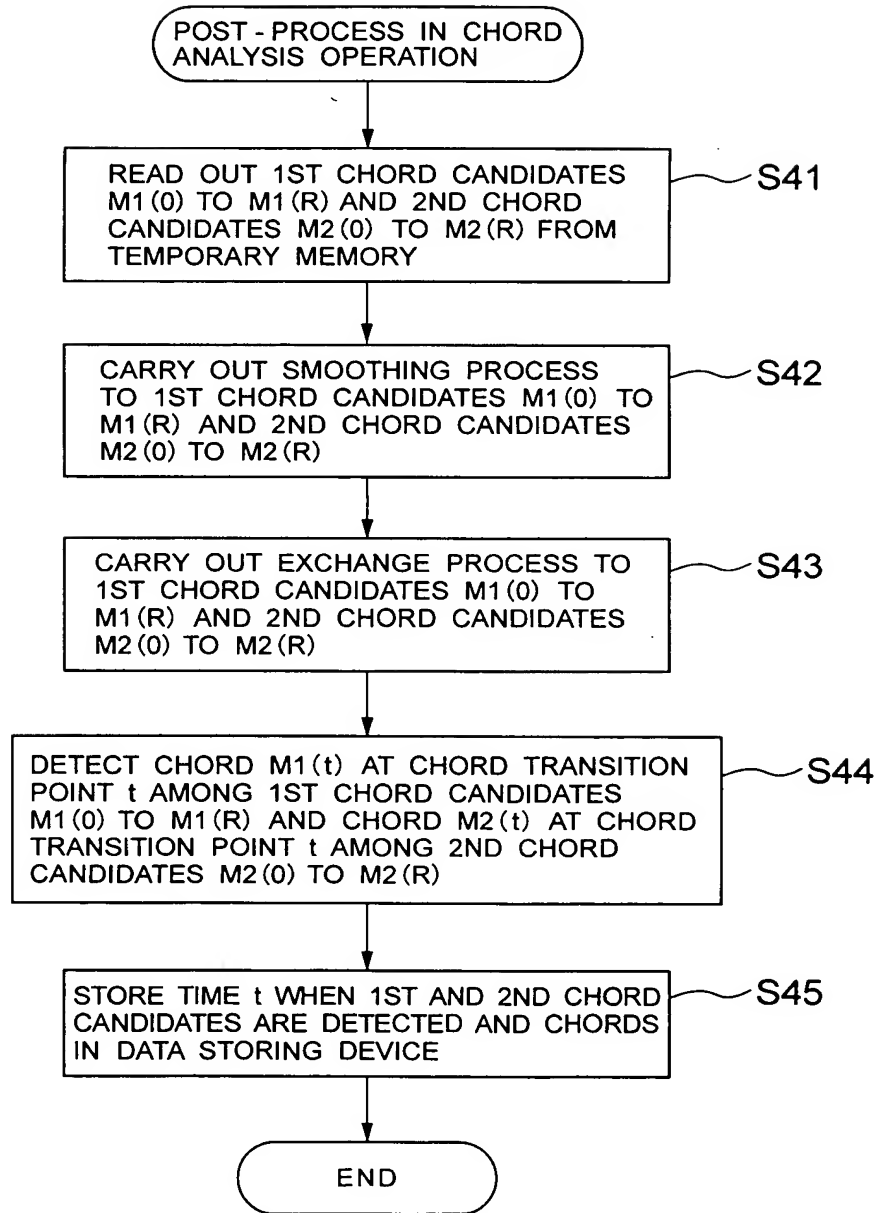
FIG.9B

ATTRIBUTE	
MAJOR	0 × 00
MINOR	0 × 02
7TH CANDIDATE	0 × 01
DIM 7TH CANDIDATE	0 × 03

FIG.9C

ATTRIBUTE (LOWER 4 BITS) + FUNDAMENTAL TONE (LOWER 4 BITS)

FIG.10



9 / 19

FIG.11

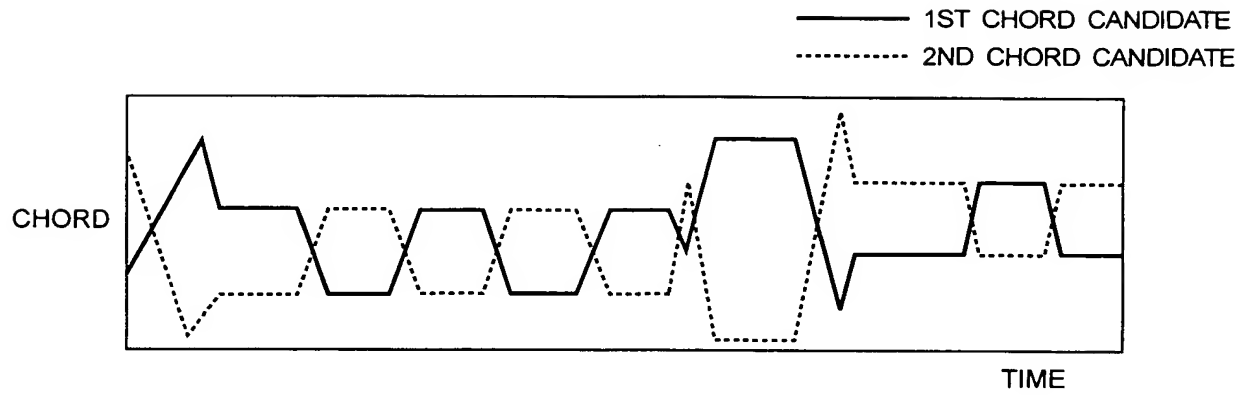


FIG.12

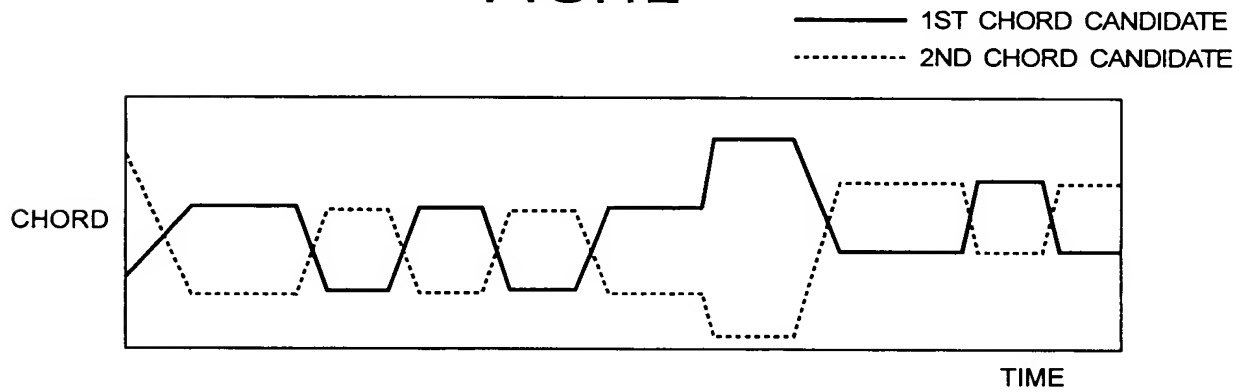
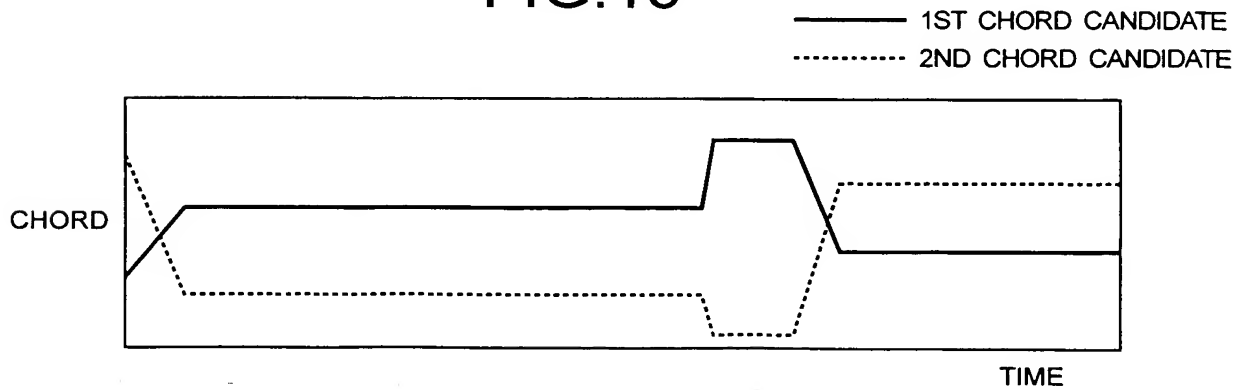


FIG.13



—— 1ST CHORD CANDIDATE
----- 2ND CHORD CANDIDATE

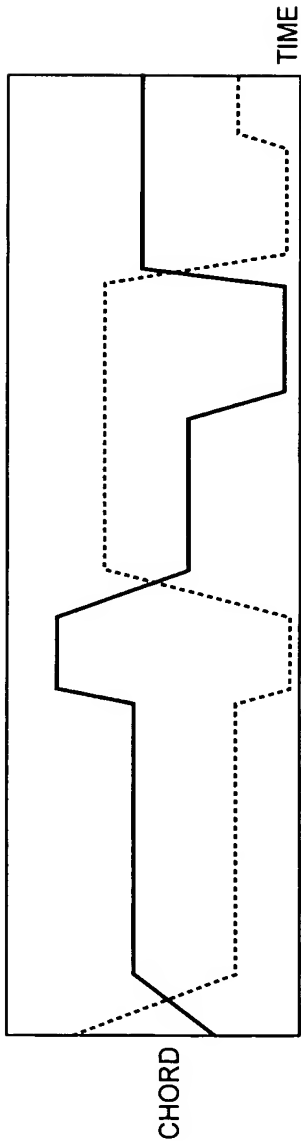


FIG.14A

TRANSITION OF 1ST CHORD CANDIDATE	F				
	0 x 08				
	←TIME (T1(0))				
TRANSITION OF 2ND CHORD CANDIDATE	F				
	0 x 03				
	←TIME (T2(0))				

FIG.14B

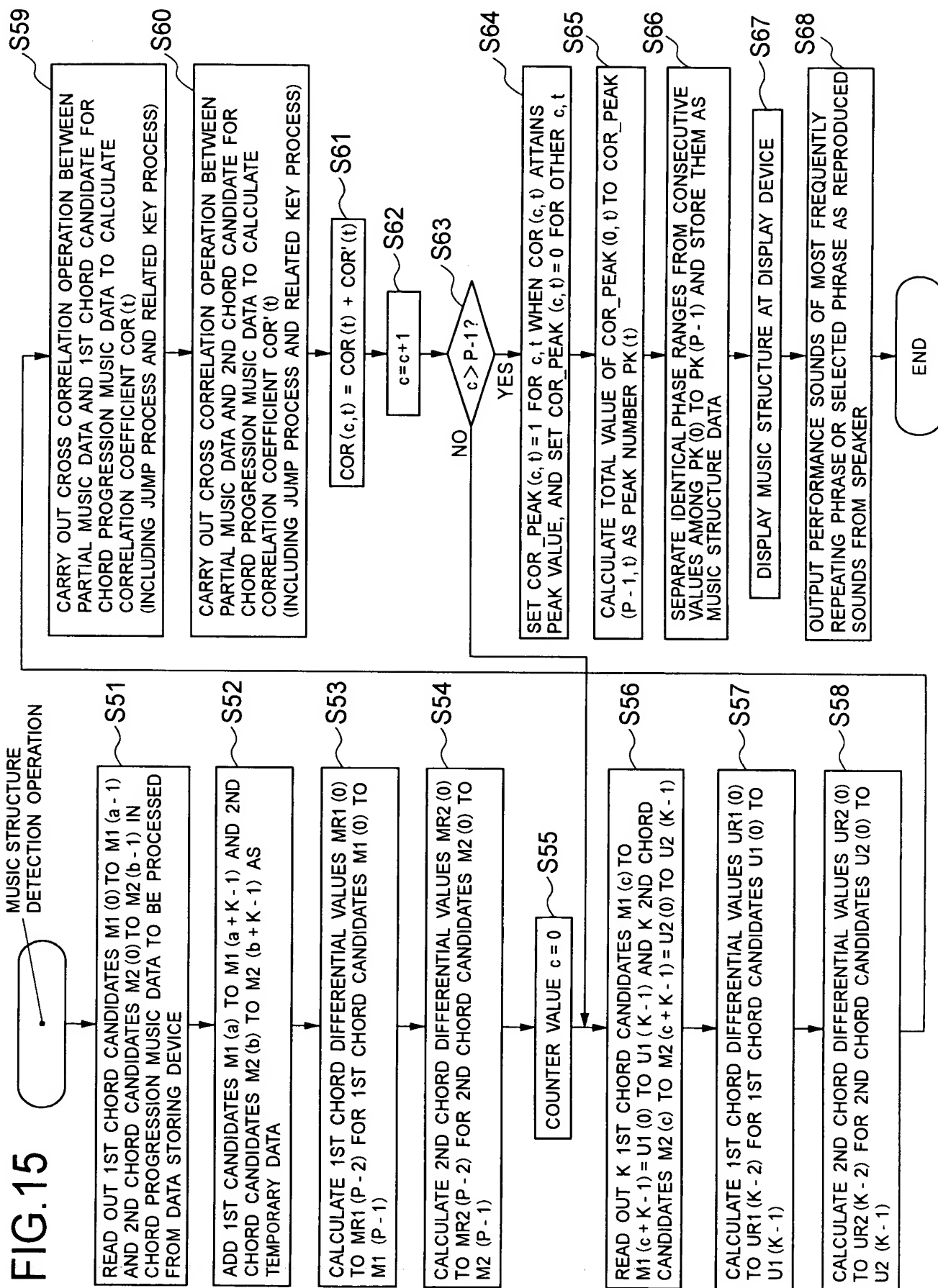
TRANSITION OF 1ST CHORD CANDIDATE	G	D	B \flat	F		
	0 x 0A	0 x 05	0 x 01	0 x 08		
	T1(1)	T1(2)	T1(3)	T1(4)		
TRANSITION OF 2ND CHORD CANDIDATE	B \flat	F \sharp m	B \flat	C		
	0 x 01	0 x 29	0 x 01	0 x 03		
	T2(1)	T2(2)	T2(3)	T2(4)		

FIG.14C

IDENTIFICATION INFORMATION FOR MUSIC PIECES (FILE NAMES, ETC.) (512 BYTES)									
NUMBER OF 1ST CHORD									
CANDIDATES (4 BYTES)									
T1(3) (4 BYTES)		[0×01]		T1(4) (4 BYTES)		[0×08]		T1(1) (4 BYTES) [0×0A] T1(2) (4 BYTES) [0×05]	
NUMBER OF 2ND CHORD									
CANDIDATES (4 BYTES)									
T2(3) (4 BYTES)		[0×01]		T2(4) (4 BYTES)		[0×03]		T2(1) (4 BYTES) [0×01] T2(2) (4 BYTES) [0×29]	

FIG.14D

11 / 19



12 / 19

FIG.16

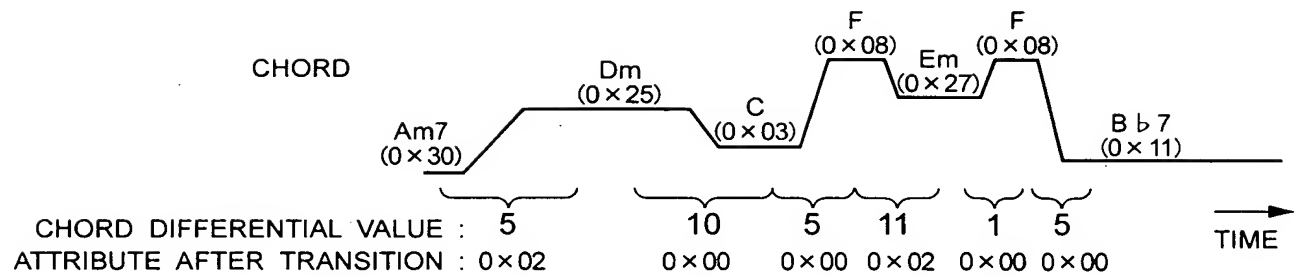


FIG.17

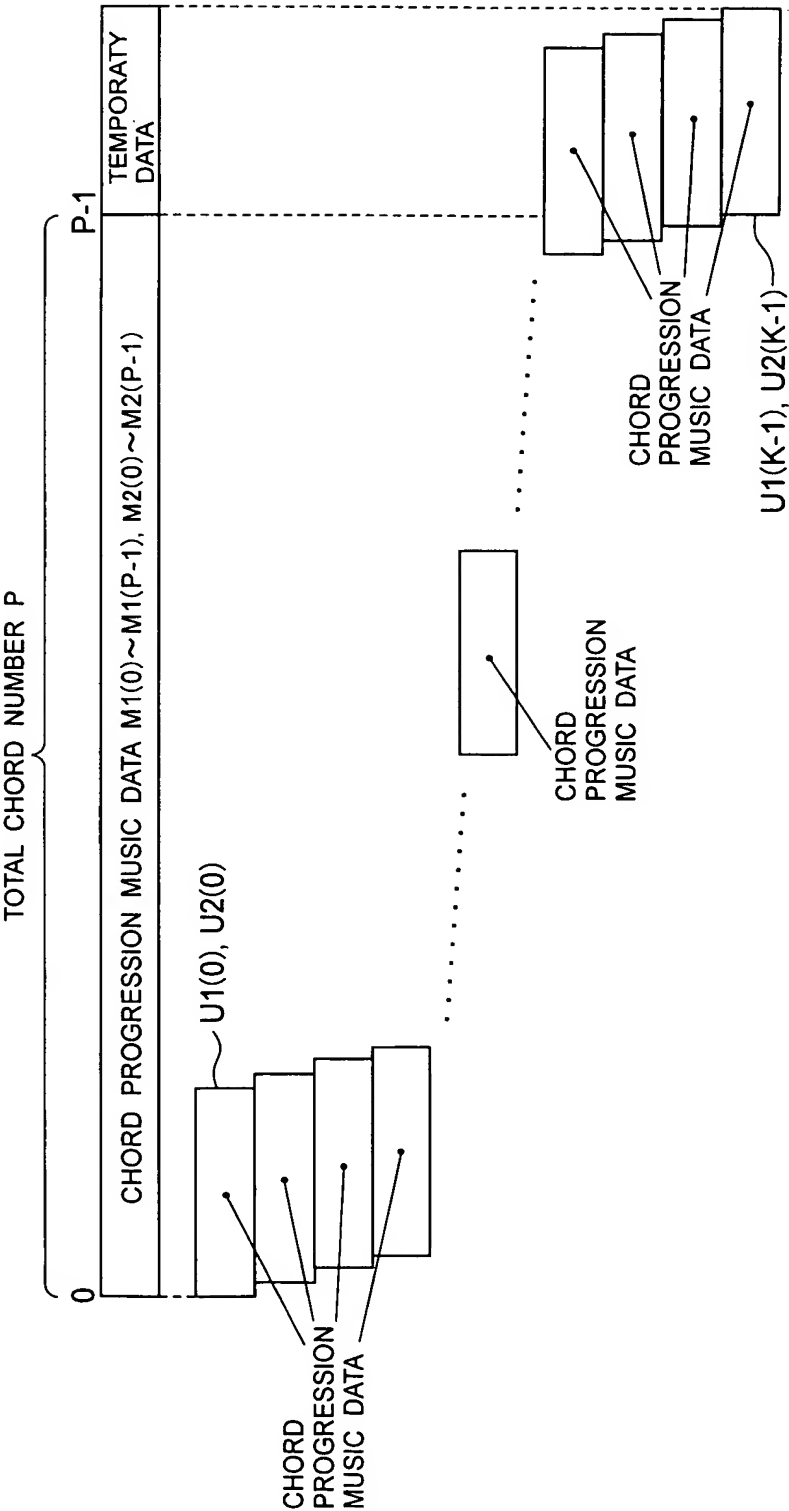


FIG. 18A

CHORD DIFFERENTIAL VALUE FOR CHORD PROGRESSION MUSIC DATA AND CHORD TIME WIDTH

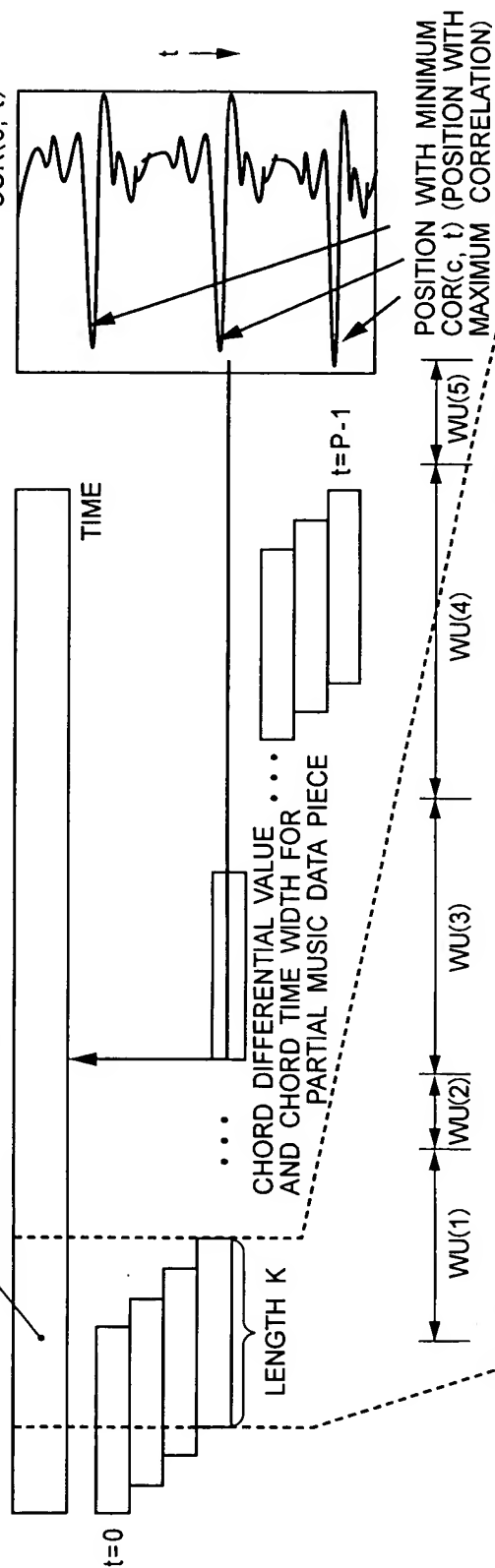
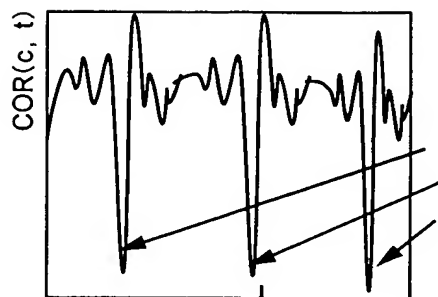
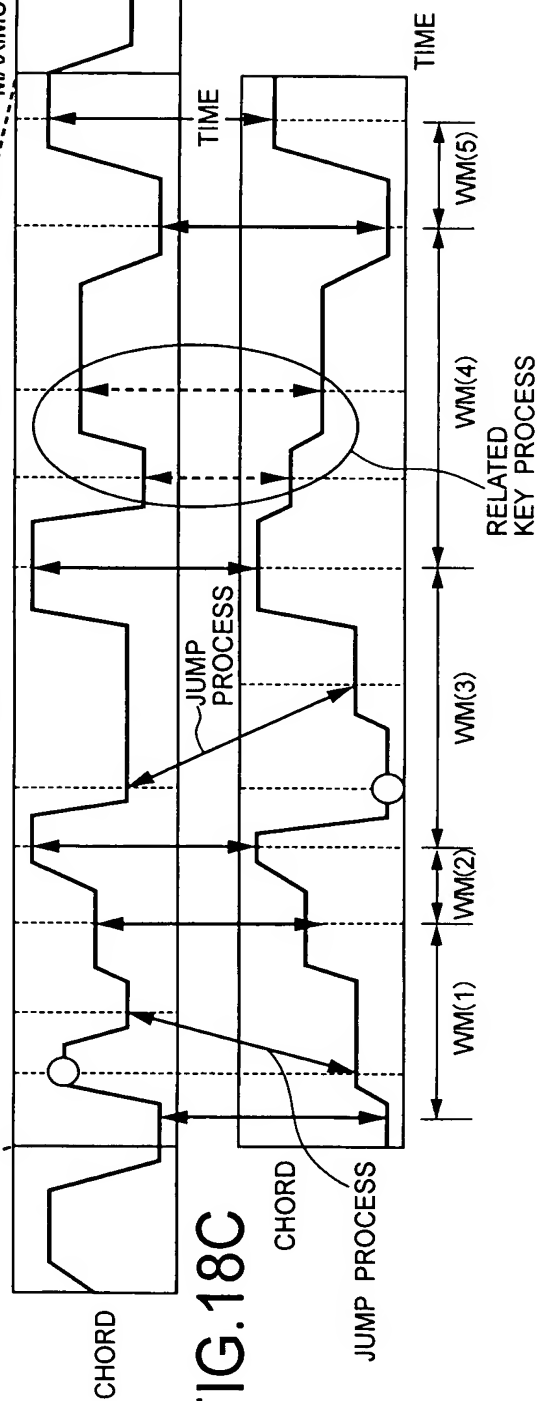


FIG. 18B



POSITION WITH MINIMUM
COR(c, t) (POSITION WITH
MAXIMUM CORRELATION)

FIG. 18C



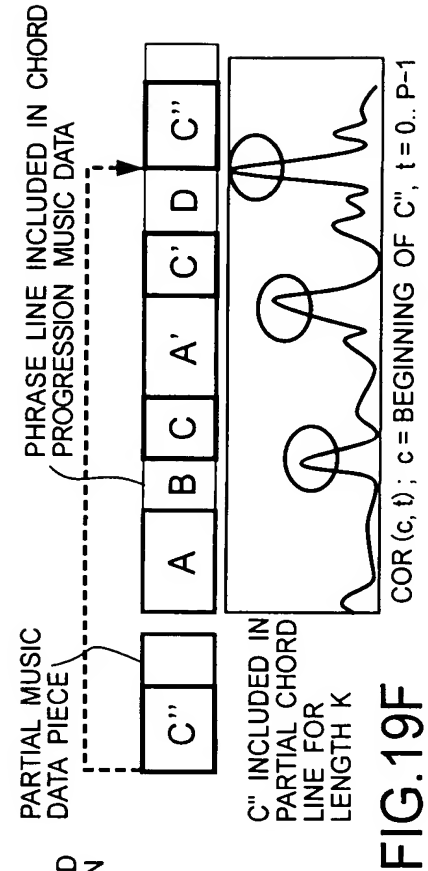
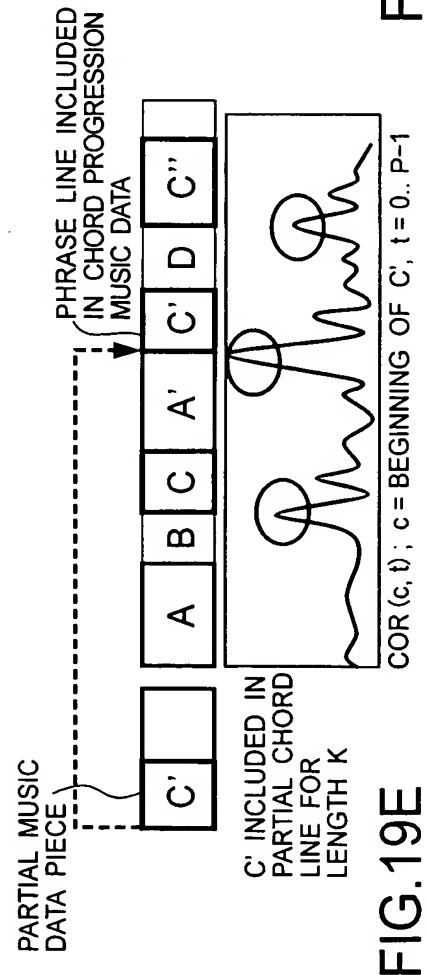
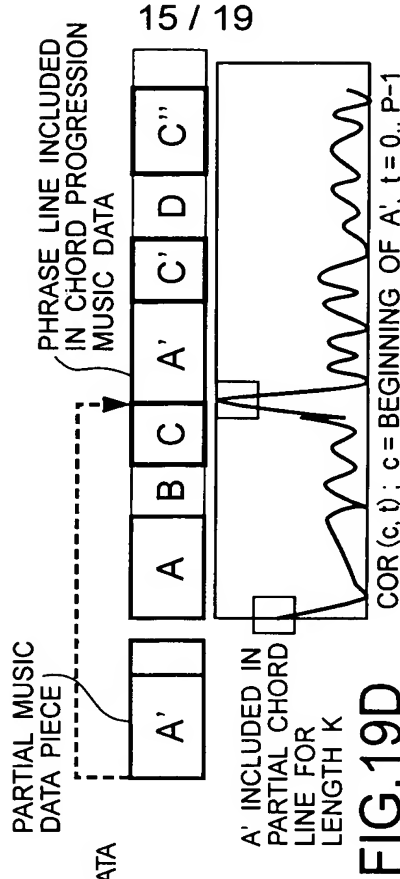
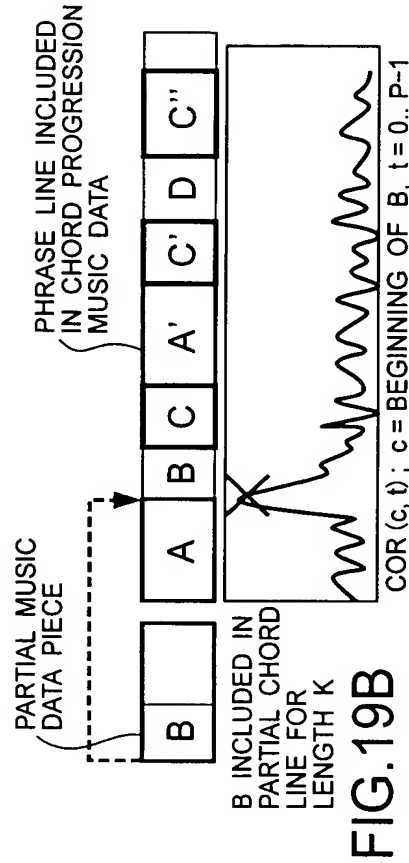
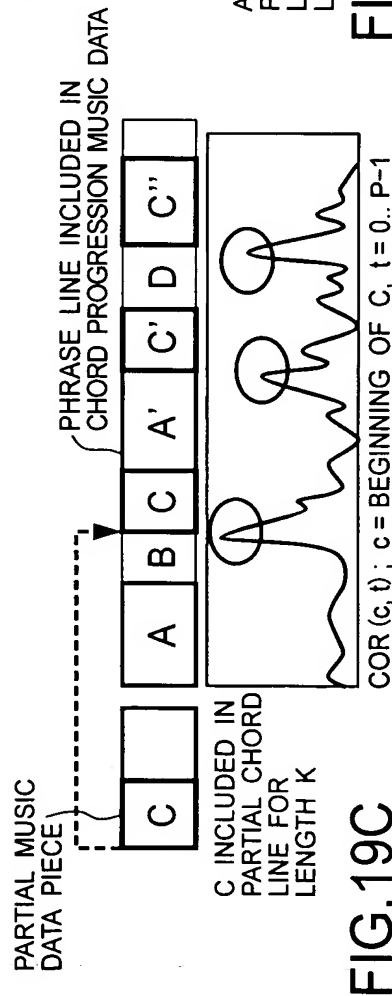
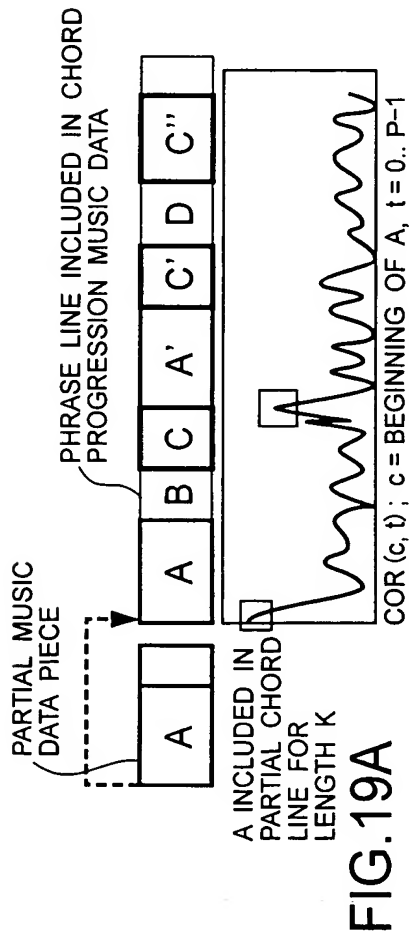


FIG.20

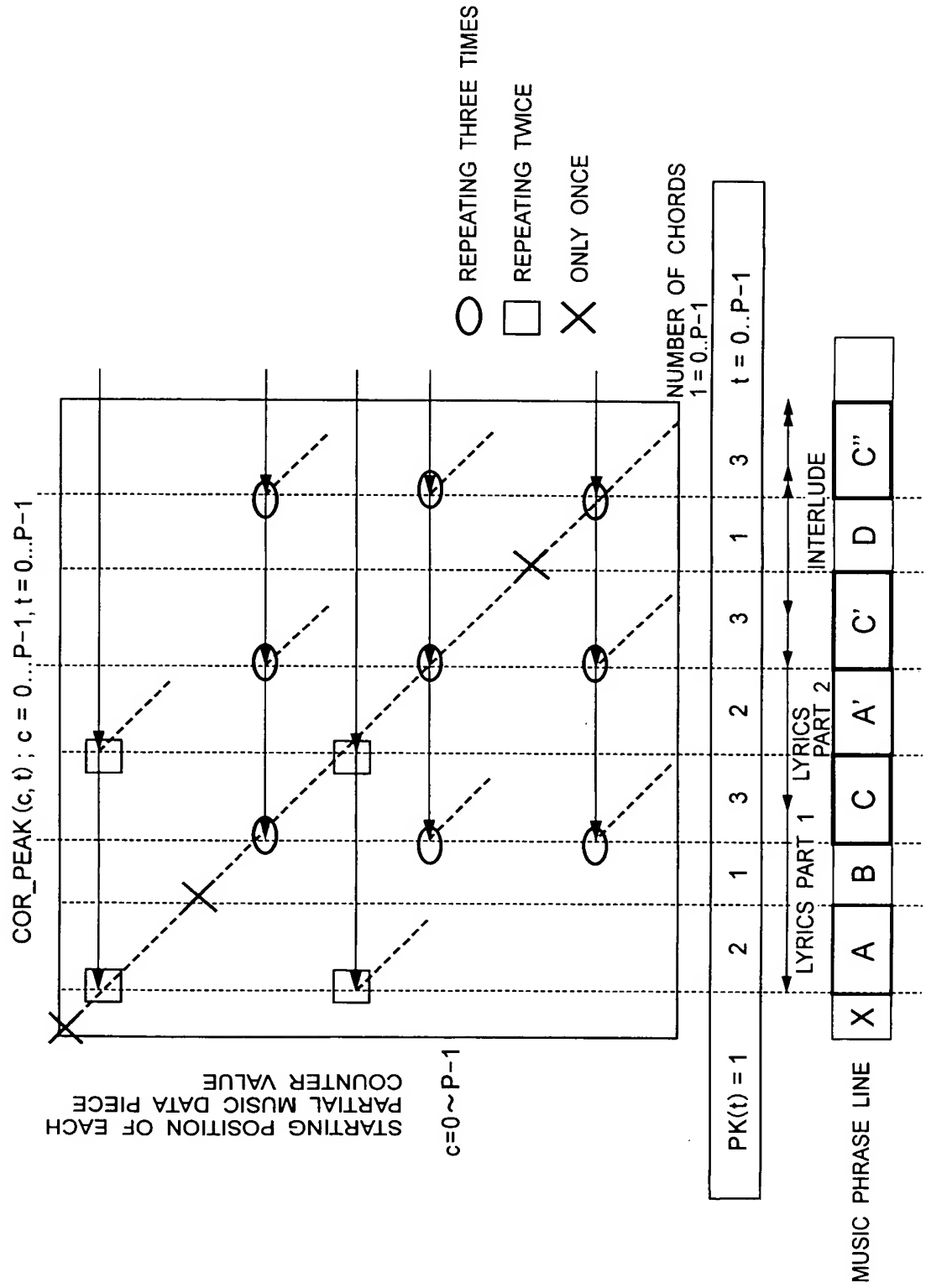


FIG.21

IDENTIFICATION INFORMATION FOR MUSIC PIECES (FILE NAMES, ETC.) (512 BYTES)

REPEATING PART 1 : PHRASE REPEATING THREE TIMES

0×03 (RANK 3, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

3RD PHRASE STARTING TIME INFORMATION (4 BYTES)
3RD PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 2 : PHRASE REPEATING TWICE

0×02 (RANK 2, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 3 : PHRASE REPEATING TWICE

0×02 (RANK 2, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 4 : (ACTUALLY NOT REPEATING, APPEARING ONLY ONCE)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)
PHRASE ENDING TIME INFORMATION (4 BYTES)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)
PHRASE ENDING TIME INFORMATION (4 BYTES)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)
PHRASE ENDING TIME INFORMATION (4 BYTES)

FIG.22

The diagram shows a rectangular interface with rounded corners. At the top is a wide rectangular box labeled "MUSIC TITLE OR FILE NAME". Below this, the interface is divided into several sections. On the left, there is a box labeled "IMPRESSIVE PART RANKING 2" containing two radio buttons labeled "1ST PART!" and "2ND PART!". Below this is a box labeled "INTRO?" with a radio button. At the bottom left is an oval button labeled "REPRODUCE FROM START!". In the center, there is a box labeled "IMPRESSIVE PART RANKING 1" containing three radio buttons labeled "1ST PART!", "2ND PART!", and "3RD PART!". On the right, there is a box labeled "IMPRESSIVE PART RANKING 2" containing two radio buttons labeled "1ST PART!" and "2ND PART!". Below this is a box labeled "MELODY B?" with a radio button. At the bottom right is an oval button labeled "STOP!".

FIG.23

